



BLACK PEN-SPP

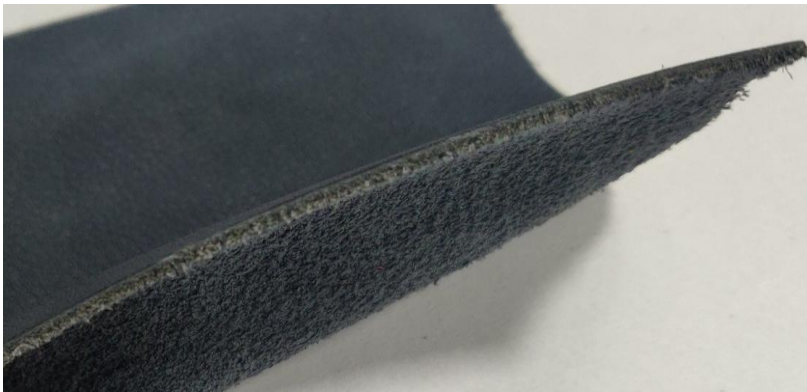
TOP DYEING - 3%



SPLIT - 3%



PENETRATION



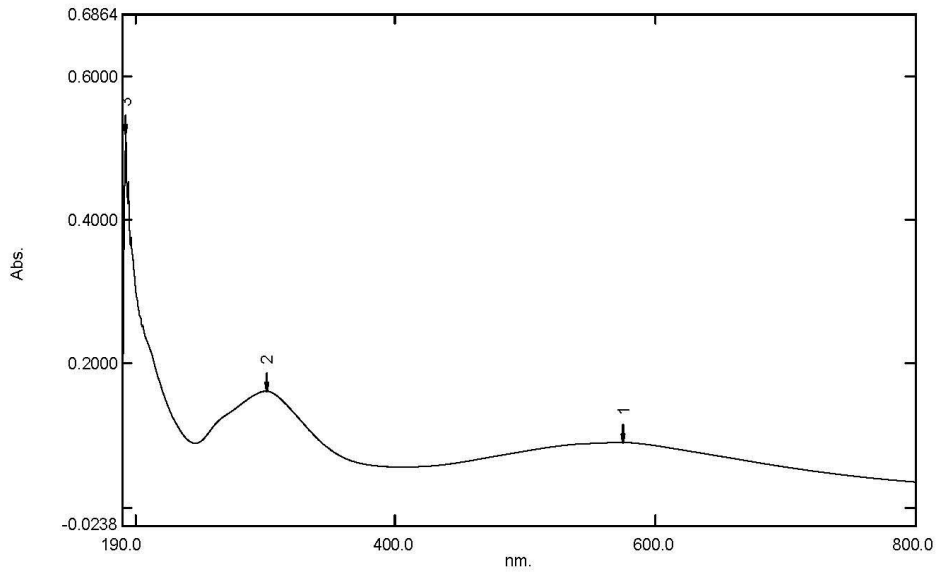
| 60° Solubility | Penetration | Light | F A S T N E S S | | | | | |
|----------------|-------------|-------|------------------------|-----|----|---------|-----|----|
| | | | PERSPIRATION | | | WASHING | | |
| | | | CS | SC | SW | CS | SC | SW |
| 60 | 6-7 | 2-3 | 3-4 | 2-3 | 4 | 2-3 | 2-3 | 3 |

SCALE - 1 TO 5
 CS - COTTON + SILK
 SC - SPUN DIACETATE
 SW - SPUN WOOL

Spectrum Peak Pick Report

04-04-2019 03:18:44 PM

Data Set: BLK PEN SPP B-2018-191 10PPM - RawData



[Measurement Properties]
Wavelength Range (nm.): 190.0 to 800.0
Scan Speed: Fast
Sampling Interval: 0.5
Auto Sampling Interval: Enabled
Scan Mode: Single

| No. | P/V | Wavelength | Abs. | Description |
|-----|-----|------------|--------|-------------|
| 1 | ⊕ | 575.0 | 0.0903 | |
| 2 | ⊕ | 301.0 | 0.1617 | |
| 3 | ⊕ | 192.5 | 0.5208 | |

[Instrument Properties]
Instrument Type: UV-1900 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.8 nm
S/R Exchange: Normal

[Attachment Properties]
Attachment: None

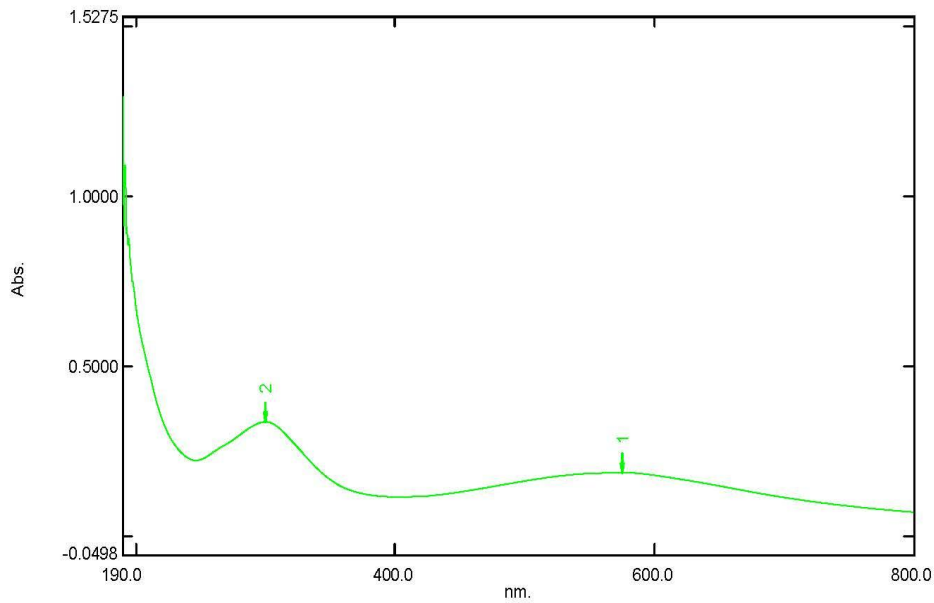
[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight: 0.1
Volume: 100
Dilution: 10 ppm
Path Length:
Additional Information:

Spectrum Peak Pick Report

04-04-2019 03:26:18 PM

Data Set: BLK PEN SPP B-2018-191 20PPM - RawData



[Measurement Properties]
Wavelength Range (nm.): 190.0 to 800.0
Scan Speed: Fast
Sampling Interval: 0.5
Auto Sampling Interval: Enabled
Scan Mode: Single

| No. | P/V | Wavelength | Abs. | Description |
|-----|-----|------------|--------|-------------|
| 1 | ● | 575.5 | 0.1886 | |
| 2 | ● | 300.0 | 0.3375 | |

[Instrument Properties]
Instrument Type: UV-1900 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.8 nm
S/R Exchange: Normal

[Attachment Properties]
Attachment: None

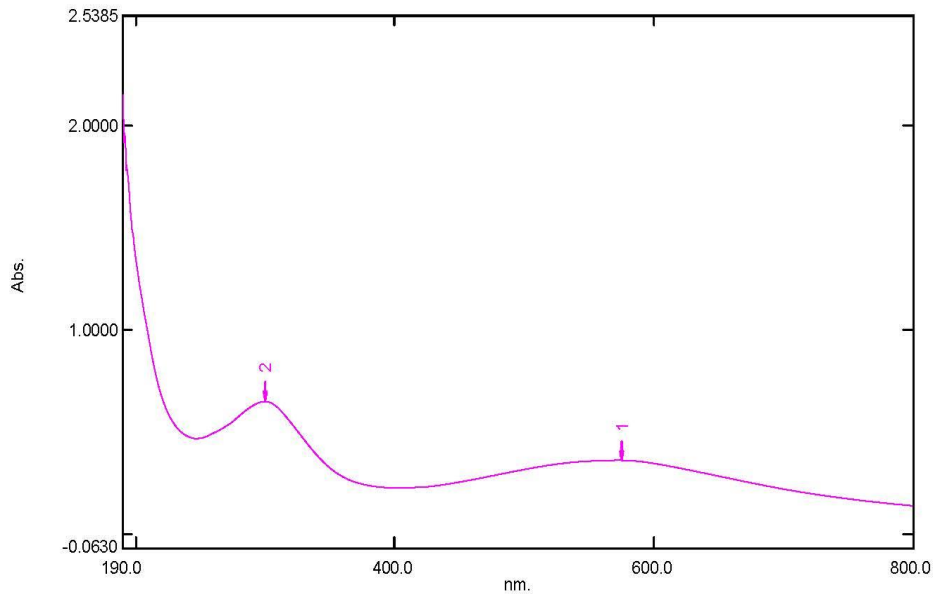
[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight: 0.1
Volume: 100
Dilution: 20 ppm
Path Length:
Additional Information:

Spectrum Peak Pick Report

04-04-2019 03:27:43 PM

Data Set: BLK PEN SPP B-2018-191 40PPM - RawData



[Measurement Properties]
Wavelength Range (nm.): 190.0 to 800.0
Scan Speed: Fast
Sampling Interval: 0.5
Auto Sampling Interval: Enabled
Scan Mode: Single

| No. | P/V | Wavelength | Abs. | Description |
|-----|-----|------------|--------|-------------|
| 1 | ● | 575.0 | 0.3610 | |
| 2 | ● | 299.5 | 0.6490 | |

[Instrument Properties]
Instrument Type: UV-1900 Series
Measuring Mode: Absorbance
Slit Width: 1.0 nm
Light Source Change Wavelength: 340.8 nm
S/R Exchange: Normal

[Attachment Properties]
Attachment: None

[Operation]
Threshold: 0.0010000
Points: 4
InterPolate: Disabled
Average: Disabled

[Sample Preparation Properties]
Weight: 0.1
Volume: 100
Dilution: 40 ppm
Path Length:
Additional Information: